

Patent claims

1. A gas turbine having a turbine and a compressor (10) comprising a compressor housing (14),

5 the compressor (10) being tapped to cool the turbine using at least one tap line (16) to remove compressed or partially compressed air and the tap line (16) having a locking device, particularly a valve (19),

10 the tap line (16) having a cavity (17) which lies in front of the locking device in the flow direction of the removed or removable air,

characterized in that the cavity (17) in the housing (14) of the compressor (10) is shaped in such way that, originating from a position of an inlet (18) of the tap line (16) and a 15 stationary blade (12) located in this area, it extends at least up into the area of a next following stationary blade (12).

2. The gas turbine as claimed in claim 1,

20 wherein the cavity (17) extends up into the area of a next following stationary blade (12) in the direction of the inflow of the ambient air into the compressor (10).

3. The gas turbine as claimed in one of claims 1 or 2,

25 wherein the cavity (17) has a locking element (20) at its entry.

4. A method for operating a gas turbine as claimed in one of claims 1 to 3, wherein the locking device, particularly the valve (19), is closed or partially closed as the gas turbine is 30 shut down.

5. A method for operating a gas turbine as claimed in claim 3,

wherein the cavity is sealed off using the locking element (20) during turn operation of the gas turbine.

6. A compressor (10) having a compressor housing (14) or a  
5 compressor housing (14) of such a compressor (10), which is suitable or provided for a gas turbine having a turbine and is tapped to cool the turbine using at least one tap line (16) to remove compressed or partially compressed air,

the tap line (16) having a locking device, particularly a valve  
10 (19),

the tap line (16) having a cavity (17) which lies in front of the locking device in the flow direction of the removed or removable air,

characterized in that the cavity (17) in the compressor housing  
15 (14) is shaped in such way that, originating from a position of an inlet (18) of the tap line (16) and a stationary blade (12) located in this area, it extends at least up into the area of a next following stationary blade (12).

20 7. The compressor or compressor housing as claimed in claim  
6,

wherein the cavity (17) extends up into the area of a next following stationary blade (12) in the direction of the inflow of the ambient air into the compressor (10).

25 8. The compressor or compressor housing as claimed in one of claims 6 or 7,

wherein the cavity (17) has a locking element (20) at its entry.